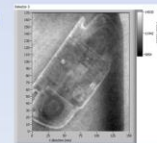
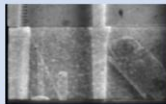


SXI Overview Scatter X-ray Imaging

- Single-sided image
- Easy to read and interpret
- Industrial proven technology
- Patented radiography by selective detection
 - Improved subsurface resolution
 - Improved subsurface contrast
 - Depth information



- Land mine detection
- Flaw detection
 - Cracks and voids
 - Delaminations
 - Corrosion
 - Deposits
 - Adhesive thickness
- Materials
 - Boric acid residue
 - Plastics
 - Reinforced carbon-carbon composites
 - Space shuttle external tank foam
 - Honeycomb structures (Aircraft wings)
 - Laminates
 - Aluminum & titanium alloy
- FOD inspections
- Security applications



Nucsafes is proud to offer its latest line of scatter x-ray imaging (SXI) products for your NDI applications. Our SXI products combine Nucsafes's field proven smart sensor technology and the innovative, patented "Radiography by Selective Detection" backscatter techniques developed at the University of Florida for the space shuttle's 2005 return to flight in reliable commercially available SXI systems.

SXI systems combine the penetrating power x-rays with single-sided imaging that produces images any radiographer or technician can easily interpret.

Our current NDI customers include:

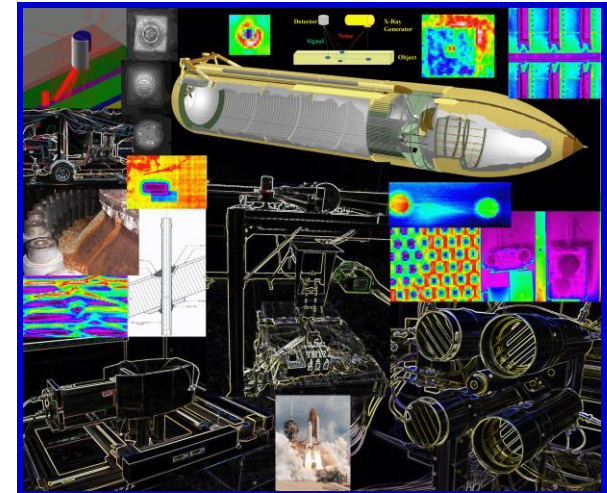
- Boeing
- NASA
- Lockheed Martin

*For Further information:
Contact Dr. Daniel Shedlock
dshedlock@nucsafes.com,
Phone: (865) 220-5050,
Fax: (865) 220-5090*

NUCSAFE



**Single-sided backscatter
x-ray imaging for your
NDI applications**



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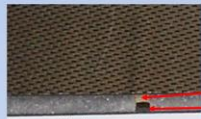
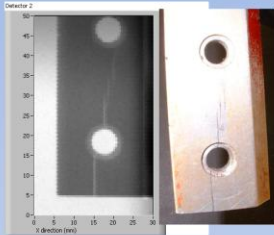
Nucsafes, Inc.
601 Oak Ridge Turnpike
Oak Ridge, TN 37830



Flaws & Defects

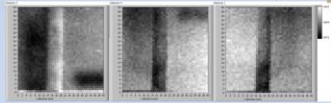
Single-sided flaw and defect detection

- Cracks
- Water intrusion
- Crushed core
- Filler gaps
- Debonds

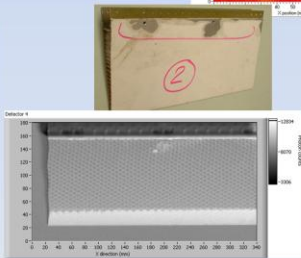
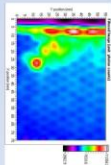
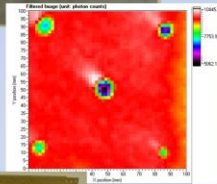


(A) Filler joint with gap

Filler Gap



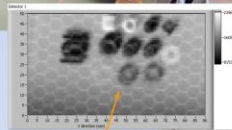
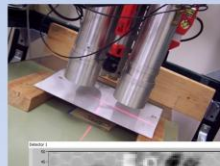
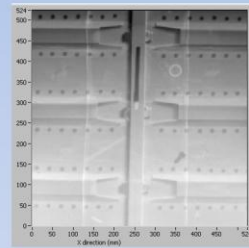
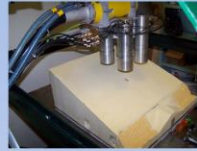
(B) 3 mm CP depth (C) 6 mm CP depth (D) 9 mm of CP depth



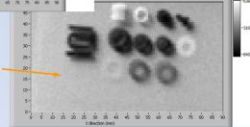
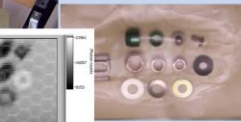
FOD Detection

Single-sided FOD detection through multi-layer stack-ups

- Honeycomb
- Insulation
- Carbon fiber
- Aluminum
- Steel



Under collimated



Correctly collimated



Corrosion

Single-sided corrosion detection through multi-layer stack-ups

- Insulation
- Carbon fiber
- Aluminum
- Steel

